Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for producing a light guide plate, comprising the steps of:

providing a molding machine comprising an injection machine and a mold, the mold comprising a first plate <u>having a side wall</u> and a second plate having a side wall opposite to the first plate, wherein the side wall of the first plate faces the side wall of the second <u>plate in a non-parallel manner, and a cavity is formed between the first plate and the second plate, the cavity having one of a wedge shape and a papilionaceous shape in cross-section, the cavity communicating with a cylinder of the injection machine;</u>

feeding a transparent resin into the cylinder;

melting the resin in the cylinder; and

rejecting the molten resin from the cylinder into the cavity of the mold; and

cooling the molten resin so that it solidifies by means of a refrigerant filled in a fluid passageway, wherein the fluid passageway that is provided in the first plate and is arranged in a plane non-parallel with the side wall of the first plate and parallel with parallel to the side wall of the second plate;

wherein a viscosity of the molten resin at an inlet of the mold is in

- the range from about 200 to about 1,000 Pa.sec, and an injection rate of the molten resin is in the range from about 1,000 to about 2,500 cm³/sec.
- Claim 2 (original): The method for producing a light guide plate as claimed in claim 1, wherein the resin is methyl methacrylate resin.
- Claim 3 (original): The method for producing a light guide plate as claimed in claim 1, wherein the temperature of the resin in the cylinder is set in the range from about 170 to about 300 °C.
- Claim 4 (original) The method for producing a light guide plate as claimed in claim 1, wherein the temperature of the resin in the cylinder is set in the range from about 190 to 270 °C.
- Claim 5 (original): The method for producing a light guide plate as claimed in claim 1, wherein the temperature of the resin in the cylinder is set in the range from about 230 to about 260 °C.
- Claim 6 (original): The method for producing a light guide plate as claimed in claim 1, wherein a viscosity of the molten resin at the inlet of the mold is in the range from about 50 to about 5,000 Pa.sec.
- Claim 7 (original): The method for producing a light guide plate as claimed in claim 1, wherein the molten resin is continuously injected into the cavity with rotation of a screw in the cylinder.
- Claim 8 (currently amended): The method for producing a light guide plate as claimed in claim 1, wherein an engraved pattern is provided on [[a]] the side wall of the first plate or the side wall of the second plate, in order to provide the obtained light guide plate with a corresponding pattern of dots.
- Claim 9 (currently amended) The method for producing a light guide plate as claimed in claim 1, wherein an engraved pattern is provided on a cavity plate that is attached on [[a]] the side wall of the first plate

- or the side wall of the second plate, in order to provide the obtained light guide plate with a corresponding pattern of dots.
- Claim 10 (currently amended): A mold for producing a light guide plate, comprising:
 - a first plate having a side wall;
 - a second plate having a side wall opposite to the side wall of the first plate, the side wall of the second plate being non-parallel to the side wall of the first plate;
 - a cavity for molding a light guide plate defined between the first plate and the second plate, the cavity having one of a wedge shape and a papilionaceous shape in cross-section; and
 - a fluid passageway provided in the first plate for cooling and solidifying molten resin injected into the cavity;
 - wherein the fluid passageway is <u>arranged in a plane non-parallel</u> with the side wall of the first plate and parallel with parallel to the side wall of the second plate.
- Claim 11 (original): The mold for producing a light guide plate as claimed in claim 10, wherein a fluid passageway is provided in the second plate, parallel to passageway of the first plate.
- Claim 12 (original): The mold for producing a light guide plate as claimed in claim 10, wherein the cavity is wedge-shaped.
- Claim 13 (original): The mold for producing a light guide plate as claimed in claim 10, wherein the cavity has a papilionaceous shape in cross-section.
- Claim 14 (original) The mold for producing a light guide plate as claimed in claim 10, wherein the mold is made of copper or a copper alloy.
- Claim 15 (original): The mold for producing a light guide plate as claimed in

- claim 14, wherein a material of the mold is mixed with any one of Ni, NiCo, NiP, SiC, Cr and TiC.
- Claim 16 (currently amended): The mold for producing a light guide plate as claimed in claim 10, wherein an engraved pattern is provided on [[a]] the side wall of the first plate or the side wall of the second plate.
- Claim 17 (original): The mold for producing a light guide plate as claimed in claim 10, further comprising a cavity plate attached on the side wall of the first plate or the second plate, the cavity plate having an engraved pattern provided thereon.
- Claim 18 (original): The mold for producing a light guide plate as claimed in claim 16, wherein the pattern comprises a plurality of concavities.
- Claim 19 (original) The mold for producing a light guide plate as claimed in claim 17, wherein the pattern comprises a plurality of concavities.
- Claim 20 (original): A method for making a light guide plate comprising:

 providing a mold including opposite first and second plates
 wherein the first plate defining a non-oblique side wall and said
 second plate defining an oblique side wall spatially facing to each
 other and commonly defining a cavity thererbetween for forming
 said light guide plate; and

providing said second plate with a plurality of cooling fluid passageways adjacent to said oblique side wall under a condition that

said plurality of passageways are arranged in a plane with regard to the oblique side wall in a non-parallel manner.